

256628

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**



Applicant: FIRE et al.

Appln. No.: 09/215,257

Filing Date: December 18, 1998

Date: July 8, 1999

Page 1 of 1

Examiner: Unknown Group Art Unit: 1649

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Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
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DPN	MR	RATCLIFF F ET AL: "A similarity between viral defense and gene silencing in plants", SCIENCE, vol. 276, no. 93, 6 June 1997, pages 1558-1560, XP002095874, see the whole document.			
	NR	FIRE, A. ET AL. "Production of antisense RNA leads to effective and specific inhibition of gene expression in C. elegans muscle", DEVELOPMENT (CAMBRIDGE, UK) (1991), 113(2), 503-14 XP002103600 cited in the application, see page 508, right-hand column, paragraph 2, see page 509, right-hand column - page 511, right-hand column, see page 512, 'Discussion' and figure 7.			
	OR	MATZKE M A ET AL.: "HOW AND WHY DO PLANTS INACTIVATE HOMOLOGOUS (TRANS) GENES?", PLANT PHYSIOLOGY, vol. 107, no. 3, 1 March 1995, pages 679-685, XP002021174, see page 680, left-hand column, paragraph 3 - right-hand column, paragraph 1, see page 682.			
	PR	FIRE A ET AL: "Potent and specific genetic interference by double - stranded RNA in Caenorhabditis elegans", NATURE, (1998 FEB 19) 391 (6669) 806-11., XP002095876 , cited in the application, see the whole document.			
	QR	MONTGOMERY M K ET AL: "Double - stranded RNA as a mediator in sequence-specific genetic silencing and co-specific genetic silencing and co - suppression", TRENDS IN GENETICS, (1998 JUL) 14 (7) 255-8., XP004124680, cited in the application, see the whole document.			
	RR	TIMMONS L ET AL: "Specific interference by ingested dsRNA", NATURE, (1998 OCT 29) 395 (6705) 854., XP002103601, cited in the application, see the whole document.			

Examiner  Date Considered: 5/31/00

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Filing Date: December 18, 1998

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Group Art Unit: 1649

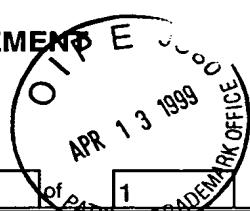
Date: April 13, 1999

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DPN	AR	5,258,369	11/1993	Carter			
	BR	5,738,985	04/1998	Miles			
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	GR	5,208,149	05/1993	Inouye			
	HR	5,272,065	12/1993	Inouye			
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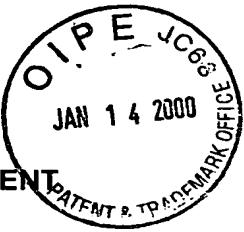
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Atty. Dkt. No.	M# 256628	Client Ref.
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Applicant: FIRE et al. JAN 18 2000		
Appln. No.: 09/215,257 TECH CENTER 1600/2900		
Filing Date: December 18, 1998		
Examiner: Unknown Group Art Unit: 1649		

Date: January 14, 2000

Page 1 of 1

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DPN	AR 4,469,863	09/1984	TS'O et al.	██████████	██████████	
↓	BR 4,511,713	04/1985	MILLER et al.	██████████	██████████	
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OTHER (Including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

DPN	YR	Samuel E. Driver, Gregory S. Robinson, Jean Flanagan, Wei Shen, Lois E.H. Smith, David W. Thomas, and Peter C. Roberts, "Oligonucleotide-based inhibition of embryonic gene expression," Nature Biotechnology, Vol. 17, December 1999, pages 1184-1187			
↓	TR	Alejandro Sanchez Alvarado and Phillip A. Newmark, "Double-stranded RNA specifically disrupts gene expression during planarian regeneration," Proc. Natl. Acad. Sci. USA, Vol. 96, April 1999, Developmental Biology, pages 5049-5054			
UR	UR	James D. Thompson, "Shortcuts from gene sequence to function," Nature Biotechnology, Vol. 17, December 1999, pages 1158-1159			
VR					
WR					
XR					

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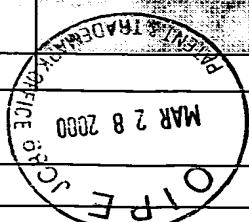
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Applicant: FIRE et al.

Appln. No.: 09/215,257

Filing Date: December 18, 1998

Examiner: Unknown | Group Art Unit: 1649



Date: March 28, 2000

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DPN	RR	Baum et al., "Inhibition of protein synthesis in reticulocyte lysates by a double-stranded RNA component in HeLa mRNA" Biochem Biophys Res Comm, July 18, 1983, 114:41-49.				
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	TR	Klaff et al., "RNA structure and the regulation of gene expression" Plant Mol Biol, 1996, 32:89-106.				
	UR	Dolnick, "Naturally occurring antisense RNA" Pharmacol Ther, 1997, 75:179-184.				
	VR	Wagner et al., "Double-stranded RNA poses puzzle" Nature, February 19, 1998, 391:744-745.				
	WR	Harbinder et al., "Genetically targeted cell disruption in Caenorhabditis elegans" Proc Natl Acad Sci USA, November 1997, 94:13128-13133.				

Examiner Karen O'Connor

Date Considered: 07-31-02

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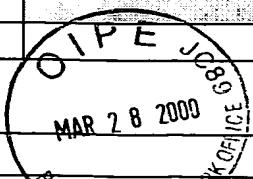
Applicant: FIRE et al.

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Examiner: Unknown

Group Art Unit: 1649



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Date: March 28, 2000

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	SR	Kumar and Carmichael, "Antisense RNA: Function and fate of duplex RNA in cells of higher eukaryotes" Microbiol Mol Biol Rev, December 1988, 62:1415-1434.						
	TR	Suzuki et al., "Activation of target-tissue immune-recognition molecules by double-stranded polynucleotides" Proc Natl Acad Sci USA, March 1999, 96:2285-2290.						
	UR	Hunter, "A touch of elegance with RNAi" Curr Biol, June 17, 1999, 9:R440-R442.						
	VR	Tuschi et al., "Targeted mRNA degradation by double-stranded RNA in vitro" Genes Dev, December 15, 1999, 13:3191-3197.						
	WR	Fire, "RNA-triggered gene silencing" Trends Genet, September 1999, 15:358-363.						

Examiner Karen Alcornice

Date Considered: 07-31-02

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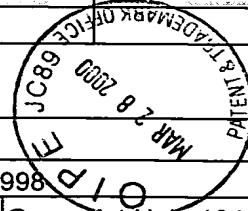
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Examiner: Unknown



Group Art Unit: 1649

Date: March 28, 2000

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DAN	QR	Tabara et al., "The rde-1 Gene, RNA interference, and transposon silencing in C. elegans" Cell, October 15, 1999, 99:123-132.	✓				
-	RR	Ketting et al., "mut-7 of C. elegans, required for transposon silencing and RNA interference, is a homolog of Werner syndrome helicase and RNaseD" Cell, October 15, 1999, 99:133-141.	✓				
-	SR	Bosher et al., "RNA interference can target pre-mRNA: Consequences for gene expression in a Caenorhabditis elegans operon" Genetics, November 1999, 153:1245-1256.	✓				
-	TR	Thompson, "Shortcuts from gene Sequence to function" Nature Biotechnology, December 1999, 17:1158-1159.					
-	UR	Driver et al., "Oligonucleotide-based inhibition of embryonic gene expression" Nature Biotechnology, December 1999, 17:1184-1187.	✓				
-	VR	Wargelius et al., "Double-stranded RNA induces specific developmental defects in zebrafish embryos" Biochem Biophys Res Comm, 1999, 263:156-161.	✓				

Examiner: Karen A Jacobson

Date Considered: 07-31-02

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Applicant: FIRE et al.

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	VR	Wianny et al., "Specific interference with gene function by double-stranded RNA in early mouse development" Nature Cell Biology, February 2000, 2:70-75.	✓		
	WR	Catalanotto et al., "Gene silencing in worms and fungi" Nature, March 16, 2000, 404:245.	✓		
	XR	Hammond et al., "An RNA-directed nuclease mediates post-transcriptional gene silencing in Drosophila cells" Nature, March 16, 2000, 404:293-296.	✓		
↓	YR	Ketting and Plasterk, "A genetic link between co-suppression and RNA interference in C. elegans" Nature, March 16, 2000, 404:296-298.	✓		

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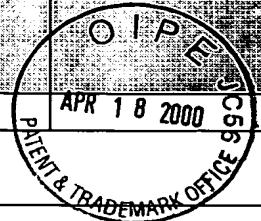
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Applicant: FIRE et al.

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DPN - NR	WO 99/61631	12/1999	PCT	HEIFETZ et al				
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